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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 08/11/2009

Siemens Corporation
Intellectual Property Department
170 Wood Avenue South
Iselin, NJ 08830

EXAMINER

COUGHLAN, PETER D

ART UNIT

PAPER NUMBER

2129

DATE MAILED: 08/11/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/626,443

07/24/2003

Michael Hogan

2002P12271US01

9636

TITLE OF INVENTION: DEVICES, SYSTEMS, AND METHODS FOR MEDIATED RULE-BASED TRANSLATION SYSTEM CONFIGURATION INFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

7590

08/11/2009

Siemens Corporation
Intellectual Property Department
170 Wood Avenue South
Iselin, NJ 08830

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

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nonprovisional

NO

\$1510

\$300

\$0

\$1810

11/12/2009

EXAMINER	ART UNIT	CLASS-SUBCLASS
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COUGHLAN, PETER D

2129

706-048000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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EXAMINER

COUGHLIN, PETER D

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DATE MAILED: 08/11/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 993 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 993 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/626,443	HOGAN, MICHAEL	
	Examiner	Art Unit	
	PETER COUGHLAN	2129	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/22/2009.
2. ☒ The allowed claim(s) is/are renumbered claims 1-45.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>B'</u> 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|--|---|

Amendments / Reasons for Allowance

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Steven DiPasquo during a phone conversation on 7/23/2009. Authorization for cancellation of withdrawn claim 45 was given by Mr. Steven DiPasquo during a phone conversation on 7/23/2009.

2. Claim 1 has been amended to read

--A computer based translation method that translates source information into target information using knowledge that arises from relationships between elements of the source information, comprising a plurality of activities comprising: obtaining configuration information from a computer based validated biopharmaceutical batch process control system; identifying patterns in the configuration information, inferring relationships between the patterns and corresponding domain concepts, and generating configuration information that encodes the domain concepts; based upon an automatically detected hierarchy among elements of the configuration information automatically obtaining a first transformed version of the configuration, said first transformed version of the configuration information including the generated

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configuration information that encodes the domain concepts; generating, via a first set of instructions encoded in DHTML, a graphical user interface based on an automatically detected hierarchy among elements of the first transformed version of the configuration information; transforming the first transformed version of the configuration information using user input to obtain a second transformed version of the configuration information, the user input obtained via the graphical user interface the user input indicative that a second set of transformations will be applied to obtain the second transformed version of the configuration information; and expressing the first transformed version and the second transformed version in a destination biopharmaceutical batch process control system, the biopharmaceutical batch process control system configured by the second transformed version to control a biopharmaceutical batch process.--

Claim 43 has been amended to read

--A machine readable medium comprising instructions for a computer based translation method that translate source information into target information using knowledge that arises from relationships between elements of the source information, the method comprising a plurality of activities comprising: obtaining configuration information from a computer based validated biopharmaceutical batch process system; identifying patterns in the configuration information, inferring relationships between the patterns and corresponding domain concepts, and generating configuration information that encodes the domain concepts; based upon an automatically detected hierarchy among elements of the configuration information automatically obtaining a first

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transformed version of the configuration, said first transformed version of the configuration information including the generated configuration information that encodes the domain concepts; generating, via a first set of instructions encoded in DHTML, a graphical user interface based on an automatically detected hierarchy among elements of the first transformed version of the configuration information; transforming the first transformed version of the configuration information using user input to obtain a second transformed version of the information, the user input obtained via the graphical user interface the user input indicative that a second set of transformations will be applied to obtain the second transformed version of the configuration information; and expressing the first transformed version and the second transformed version in a destination biopharmaceutical process control system, the biopharmaceutical process control system configured by the second transform version to control a biopharmaceutical process.--

Claim 44 has been amended to read

--A computer based system adapted to translate source information into target information using knowledge that arises from relationships between elements of the source information, the system comprising: means for obtaining configuration information from computer based validated biopharmaceutical batch process control system; means for identifying patterns in the configuration information inferring relationships between the patterns and the corresponding domain concepts, and generating configuration information that encodes the domain concepts; means for

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automatically obtaining based upon an automatically detected hierarchy among elements of the configuration information a first transformed version of the configuration information, said first transformed version of the configuration information including the generated configuration information that encodes the domain concepts; means for generating, via a first set of instructions encoded in DHTML, a graphical user interface based on an automatically detected hierarchy among elements of the first transformed version of the configuration information; and means for transforming the first transformed version of the configuration information using user input to obtain a second transformed version of the configuration information, the user input obtained via the graphical user interface the user input indicative that a second set of transformations will be applied to obtain the second transformed version of the configuration information; and means for expressing the first transformed version and the second transformed version in a process control destination system, the process control destination system configured by the second transform version to control a process.--

Reasons for Allowance

3. Claims 1-44, 46 are allowed.

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4. Claims INDEPENDENT(S) are considered allowable since when reading the claims in light of the specification, as per the MPEP §2111.01 or *Toro Co. v. White Consolidated Industries Inc.*, 199 F.3d 1295, 1301, 53 USPQ2d 1065, 1069 (Fed. Cir. 1999), none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims including identifying patterns in the configuration information (defined at e.g. ¶0075), inferring relationships between the patterns and corresponding domain concepts, and generating configuration information that encodes the domain concepts. (defined at e.g. ¶0025) as specified in claims 1, 43 and 44.

5. A practical application for the invention is disclosed at e.g. ¶0018 as a control mechanism for a biopharmaceutical batch process.

6. The closest prior art teaches (U. S. Patent 6834370: Brandl) in claim 1 a computer based translation method that translates source information into target information using knowledge that arises from relationships between elements of the source information, comprising a plurality of activities comprising: obtaining configuration information from a computer based validated biopharmaceutical batch process control system (**Brandl**, C1:1-36, C48:54 through C49:10; 'Biopharmaceutical batch process control system' of applicant is disclosed by 'The process industry is the segment of industry which handles bulk materials, such as chemicals, food products,

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bulk polymeric materials, fuels, pharmaceuticals, etc., by processing input materials in a bulk manner to change their physical or chemical state to manufacture products' of Brandl. 'Obtaining configuration information' of applicant is illustrated by 'The file folders pane allows the user to select the elements of the recipe he wishes to view' of Brandl.) based upon an automatically detected hierarchy among elements of the configuration information automatically obtaining a first transformed version of the configuration, said first transformed version of the configuration information including the generated configuration information that encodes the domain concepts; (**Brandl**, abstract, C18:61 through C19:20; 'Automatically' of applicant is equivalent to 'automatically' of Brandl. 'Hierarchy among elements of the configuration information' of applicant is disclosed by 'The batch control system 18 controls manufacture in the process cell 14 through its interface to the control modules 38 within the process cell. Although each control module typically can be operated independently of all of the other control modules in the process cell, the logical grouping of the control modules 38 into the hierarchy of equipment modules 36, units 34, and process cells 14 provides for a more organized picture of the process equipment. This structure often simplifies the task of controlling a process to manufacture a product' of Brandl. 'Automatically obtaining a first transformed version of the configuration' of applicant is disclosed by 'A method is provided for automatically creating a set of master recipes from general recipe using site information' in combination with 'The following description will explain, in accordance with the preferred embodiments of the invention, how a set of master recipes will be created to perform the process of the general recipe of fig 13 in the process cell 14 of fig 12' of

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Brandl.) a graphical user interface based on an automatically detected hierarchy among elements of the first transformed version of the configuration information. (**Brandl**, fig, 70; 'Graphical user interface' of applicant is disclosed by an image of the graphical used interface used with Brandl.) transforming the first transformed version of the configuration information using user input to obtain a second transformed version of the configuration information (**Brandl**, C33:55-65, 41:64 through C42:24; Examples of transforming the first transformed version of the configuration information' of applicant are 'The actual data structure, the units of measure used for the various pieces of data (such as pressures, temperatures, volumes, etc.), the information selected to be in the database, etc. are all matters of choice. In the preferred embodiments, the users select the units of measure to be used for each data type. The users preferably also select what information is included in the unit specific equipment information database and in the equipment requirements section of each recipe segment', 'The optimization information 132 may be user defined or it may be predefined, such as minimum number of material movements, minimum number of units used to perform the general recipe 44 in the process cell 14, or minimum cost of running a recipe segment 64' and 'Each of these blocks preferably allows the user to select whether the optimization algorithms associated with the block are activated or not' of Brandl.) the user input obtained via the graphical user interface the user input indicative that a second set of transformations will be applied to obtain the second transformed version of the configuration information (**Brandl**, figures 70 and 71; 'Graphical user interface' of applicant is illustrated by the graphic user interfaces of these figures of Brandl.) expressing the first transformed

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version and the second transformed version in a destination biopharmaceutical batch process control system, the biopharmaceutical batch process control system configured by the second transformed version to control a biopharmaceutical batch process.

(**Brandl**, C1:1-36, figures 70 and 71; 'Biopharmaceutical batch process control system' of applicant is disclosed by 'The process industry is the segment of industry which handles bulk materials, such as chemicals, food products, bulk polymeric materials, fuels, pharmaceuticals, etc., by processing input materials in a bulk manner to change their physical or chemical state to manufacture products' of Brandl. These figures of Brandl show the formula of 'product C' and the user is able to generate a second transformed version using the graphic interface.)

In claim 43, a machine readable medium comprising instructions for a computer based translation method that translate source information into target information using knowledge that arises from relationships between elements of the source information, the method comprising a plurality of activities comprising: obtaining configuration information from a computer based validated biopharmaceutical batch process system (**Brandl**, C1:1-36, C48:54 through C49:10; 'Biopharmaceutical batch process control system' of applicant is disclosed by 'The process industry is the segment of industry which handles bulk materials, such as chemicals, food products, bulk polymeric materials, fuels, pharmaceuticals, etc., by processing input materials in a bulk manner to change their physical or chemical state to manufacture products' of Brandl. 'Obtaining configuration information' of applicant is illustrated by 'The file folders pane allows the user to select the elements of the recipe he wishes to view' of Brandl.) based upon an

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automatically detected hierarchy among elements of the configuration information
automatically obtaining a first transformed version of the configuration, said first transformed version of the configuration information including the generated configuration information that encodes the domain concepts; (**Brandl**, abstract, C18:61 through C19:20; 'Automatically' of applicant is equivalent to 'automatically' of Brandl. 'Hierarchy among elements of the configuration information' of applicant is disclosed by 'The batch control system 18 controls manufacture in the process cell 14 through its interface to the control modules 38 within the process cell. Although each control module typically can be operated independently of all of the other control modules in the process cell, the logical grouping of the control modules 38 into the hierarchy of equipment modules 36, units 34, and process cells 14 provides for a more organized picture of the process equipment. This structure often simplifies the task of controlling a process to manufacture a product' of Brandl. 'Automatically obtaining a first transformed version of the configuration' of applicant is disclosed by 'A method is provided for automatically creating a set of master recipes from general recipe using site information' in combination with 'The following description will explain, in accordance with the preferred embodiments of the invention, how a set of master recipes will be created to perform the process of the general recipe of fig 13 in the process cell 14 of fig 12' of Brandl.) a graphical user interface based on an automatically detected hierarchy among elements of the first transformed version of the configuration information (**Brandl**, fig, 70; 'Graphical user interface' of applicant is disclosed by a image of the graphical used interface used with Brandl.); transforming the first transformed version of the

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configuration information using user input to obtain a second transformed version of the information (**Brandl**, C33:55-65, 41:64 through C42:24; Examples of transforming the first transformed version of the configuration information' of applicant are 'The actual data structure, the units of measure used for the various pieces of data (such as pressures, temperatures, volumes, etc.), the information selected to be in the database, etc. are all matters of choice. In the preferred embodiments, the users select the units of measure to be used for each data type. The users preferably also select what information is included in the unit specific equipment information database and in the equipment requirements section of each recipe segment', 'The optimization information 132 may be user defined or it may be predefined, such as minimum number of material movements, minimum number of units used to perform the general recipe 44 in the process cell 14, or minimum cost of running a recipe segment 64' and 'Each of these blocks preferably allows the user to select whether the optimization algorithms associated with the block are activated or not' of Brandl.) the user input obtained via the graphical user interface the user input indicative that a second set of transformations will be applied to obtain the second transformed version of the configuration information (**Brandl**, figures 70 and 71; 'Graphical user interface' of applicant is illustrated by the graphic user interfaces of these figures of Brandl.); and expressing the first transformed version and the second transformed version in a destination biopharmaceutical process control system, the biopharmaceutical process control system configured by the second transform version to control a biopharmaceutical process. (**Brandl**, C1:1-36, figures 70 and 71; 'Biopharmaceutical batch process control system' of applicant is disclosed by

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'The process industry is the segment of industry which handles bulk materials, such as chemicals, food products, bulk polymeric materials, fuels, pharmaceuticals, etc., by processing input materials in a bulk manner to change their physical or chemical state to manufacture products' of Brandl. These figures of Brandl show the formula of 'product C' and the user is able to generate a second transformed version using the graphic interface.)

In claim 44, a computer based system adapted to translate source information into target information using knowledge that arises from relationships between elements of the source information, the system comprising: means for obtaining configuration information from computer based validated biopharmaceutical batch process control system (**Brandl**, C1:1-36, C48:54 through C49:10; 'Biopharmaceutical batch process control system' of applicant is disclosed by 'The process industry is the segment of industry which handles bulk materials, such as chemicals, food products, bulk polymeric materials, fuels, pharmaceuticals, etc., by processing input materials in a bulk manner to change their physical or chemical state to manufacture products' of Brandl. 'Obtaining configuration information' of applicant is illustrated by 'The file folders pane allows the user to select the elements of the recipe he wishes to view' of Brandl.) means for automatically obtaining based upon an automatically detected hierarchy among elements of the configuration information a first transformed version of the configuration information, said first transformed version of the configuration information including the generated configuration information that encodes the domain concepts; (**Brandl**, abstract, C18:61 through C19:20; 'Automatically' of applicant is equivalent to

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'automatically' of Brandl. 'Hierarchy among elements of the configuration information' of applicant is disclosed by 'The batch control system 18 controls manufacture in the process cell 14 through its interface to the control modules 38 within the process cell. Although each control module typically can be operated independently of all of the other control modules in the process cell, the logical grouping of the control modules 38 into the hierarchy of equipment modules 36, units 34, and process cells 14 provides for a more organized picture of the process equipment. This structure often simplifies the task of controlling a process to manufacture a product' of Brandl. 'Automatically obtaining a first transformed version of the configuration' of applicant is disclosed by 'A method is provided for automatically creating a set of master recipes from general recipe using site information' in combination with 'The following description will explain, in accordance with the preferred embodiments of the invention, how a set of master recipes will be created to perform the process of the general recipe of fig 13 in the process cell 14 of fig 12' of Brandl.) a graphical user interface based on an automatically detected hierarchy among elements of the first transformed version of the configuration information (**Brandl**, fig, 70; 'Graphical user interface' of applicant is disclosed by a image of the graphical used interface used with Brandl.); means for transforming the first transformed version of the configuration information using user input to obtain a second transformed version of the configuration information (**Brandl**, C33:55-65, 41:64 through C42:24; Examples of transforming the first transformed version of the configuration information' of applicant are 'The actual data structure, the units of measure used for the various pieces of data (such as pressures, temperatures,

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volumes, etc.), the information selected to be in the database, etc. are all matters of choice. In the preferred embodiments, the users select the units of measure to be used for each data type. The users preferably also select what information is included in the unit specific equipment information database and in the equipment requirements section of each recipe segment', 'The optimization information 132 may be user defined or it may be predefined, such as minimum number of material movements, minimum number of units used to perform the general recipe 44 in the process cell 14, or minimum cost of running a recipe segment 64' and 'Each of these blocks preferably allows the user to select whether the optimization algorithms associated with the block are activated or not' of Brandl.) the user input obtained via the graphical user interface the user input indicative that a second set of transformations will be applied to obtain the second transformed version of the configuration information (**Brandl**, figures 70 and 71; 'Graphical user interface' of applicant is illustrated by the graphic user interfaces of these figures of Brandl.); and means for expressing the first transformed version and the second transformed version in a process control destination system, the process control destination system configured by the second transform version to control a process. (**Brandl**, C1:1-36, figures 70 and 71; 'Process control destination system' of applicant is disclosed by the example of 'The process industry is the segment of industry which handles bulk materials, such as chemicals, food products, bulk polymeric materials, fuels, pharmaceuticals, etc., by processing input materials in a bulk manner to change their physical or chemical state to manufacture products' of Brandl. 'Expressing the first transformed version and the second transformed version' of applicant is illustrated by

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the example of the formula of 'product C' and the user is able to generate a second transformed version using the graphic interface.)

Complementary art teaches (U. S. Patent Publication 20010056429: Moore) in claims 1, 43 and 44 generating, via a first set of instructions encoded in DHTML, (Moore, ¶0291; 'Encoded in DHTML' of applicant is equivalent to using as a presentation language of DHTML of Moore.)

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Coughlan whose telephone number is (571) 272-5990, Monday through Friday from 7:15 a.m. to 3:45 p.m. or contact the Supervisor Mr. David Vincent at (571) 272-3080.

/P. C./

Examiner, Art Unit 2129

Peter Coughlan

Patent Examiner

Application/Control Number: 10/626,443

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7/23/2009

/David R Vincent/

Supervisory Patent Examiner, Art Unit 2129